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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|----------------------|---------------------|------------------|
| 10/712,610 | 11/13/2003 | Berndt Pilgram | L&L-10226 | 9014 |
| 24131 | 7590 11/21/2006 | | EXAMINER | |
| LERNER GREENBERG STEMER LLP P O BOX 2480 | | | MAI, TAN V | |
| HOLLYWOOD, FL 33022-2480 | | | ART UNIT | PAPER NUMBER |
| | , | | 2193 | |

DATE MAILED: 11/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|--|--|--|--|--|--|--|
| | 10/712,610 · | PILGRAM, BERNDT | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Tan V. Mai | 2193 | | | | |
| The MAILING DATE of this communication app | ears on the cover sheet with the | correspondence address | | | | |
| Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATIO 16(a). In no event, however, may a reply be ting rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133). | | | | |
| Status | • | | | | | |
| 1) Responsive to communication(s) filed on 13 No | ovember 2006 | | | | | |
| | action is non-final. | | | | | |
| · = | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under E | · | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-29</u> is/are pending in the application. | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6) Claim(s) 1,2,6,7,10-15,17,19-22,24,25 and 27-29 is/are rejected. | | | | | | |
| 7) Claim(s) 3,4,7-9,16,18,23 and 26 is/are objecte | ed to. | · | | | | |
| 8) Claim(s) are subject to restriction and/or | election requirement. | · | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner | ·. | · | | | | |
| 10) The drawing(s) filed on is/are: a) acce | | Examiner. | | | | |
| Applicant may not request that any objection to the o | drawing(s) be held in abeyance. Se | e 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correcti | on is required if the drawing(s) is ob | ejected to. See 37 CFR 1.121(d). | | | | |
| 11) The oath or declaration is objected to by the Exa | aminer. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | • | | | | |
| 12) Acknowledgment is made of a claim for foreign | priority under 35 U.S.C. § 119(a |)-(d) or (f). | | | | |
| a) ⊠ All b) □ Some * c) □ None of: | hous boon received | | | | | |
| 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority | | | | | | |
| application from the International Bureau | • | ed in this National Stage | | | | |
| * See the attached detailed Office action for a list of | | ed. | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
|) Notice of References Cited (PTO-892) | . 4) Interview Summary | (PTO-413) | | | | |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail D | | | | | |
| I) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/13/03. | 6) Other: | atent Application (FTO-132) | | | | |

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1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 21-29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims recite a method for performing a mathematical function.

"[t]o satisfy section 101 requirements, the claim must be for a practical application of the Sec. 101 judicial exception, which can be identified in various ways:

- . The claimed invention "transforms" an article or physical object to a different state or thing.
- . The claimed invention otherwise produces a useful, concrete and tangible result,...".

See "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" OG Date: 22 November 2005.

Since there is no physical transform to establish a practical application, a useful, concrete and tangible result <u>appears</u> to be lacking. Therefore, claims 21-29 are directed to a non-statutory process.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2, 6-7,10-15,17,19-20, 21-22, 24-25 and 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leeb et al (Applicant's admission Prior Art, Ref. A or Ref. L) in view of Gandhi et al.

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As per independent claim 1, Leeb et al disclose all the claimed feature except the claimed "filter block"; however, the feature is old and well known in the filter art, i.e., cascaded filter blocks. For example, Gandhi et al disclose a filter having a plurality of cascaded filter blocks, e.g., see Fig. 6, filter block (41) and filter block (42) coupled to a recursive filter block. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine Gandhi et al "cascaded filter blocks" in Leeb et al, thereby making the claimed invention, because the proposed device is a filter having cascaded filter blocks as claimed.

As per dependent claims 2, 6-7 and 10-13, the detail features are well known in the art.

As per dependent claims 14-15, 17 and 19-20, the detail "analog" features are obvious to a person having ordinary skill in the art to implement the filter in either digital or analog compents.

Due to the similarity of method claim 21-22,24-25 and 27-29 to apparatus claims 1-2,6-7,10-15,17,19-20 22, they are rejected under a similar rationale.

4. Claims 1-2, 6-7,10-15,17,19-20, 21-22, 24-25 and 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leeb et al (Applicant's admission Prior Art, Ref. A or Ref. L) in view of Debuisser.

As per independent claim 1, Leeb et al disclose all the claimed feature <u>except</u> the claimed "filter block"; however, the feature is old and well known in the filter art, i.e., cascaded filter blocks. For example, Debuisser discloses a filter having a plurality of

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cascaded filter blocks, e.g., see Fig. 2 and 10-14, filter block "F" coupled to a FIR filter block. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine Gandhi et al "cascaded filter blocks" in Debuisser, thereby making the claimed invention, because the proposed device is a filter having cascaded filter blocks as claimed.

As per dependent claims 2, 6-7 and 10-13, the detail features are well known in the art.

As per dependent claims 14-15, 17 and 19-20, the detail "analog" features are obvious to a person having ordinary skill in the art to implement the filter in either digital or analog compents.

Due to the similarity of method claim 21-22,24-25 and 27-29 to apparatus claims 1-2,6-7,10-15,17,19-20 22, they are rejected under a similar rationale.

- 5. Claims 3, 4, 7-9,16,18, 23 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cited references are art of interest.

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7. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest the detail features as recited in dependent claims 3, 4, 7-9,16,18, 23 and 26.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An, can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is:

Official

(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner